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## 周报/梅鸿辉

11.21-11.27

### 本周工作

- 查阅电网系统潮流计算相关文献
- 周末参加同学婚礼

### 论文阅读

- [1] R. Klump, G. Dooley, and W. Wu, "Displaying aggregate data, interrelated quantities, and data trends in electric power systems," *Proc. 36th Annu. Hawaii Int. Conf. Syst. Sci. HICSS 2003*, 2003.

电网可视系统 Power World 的论文。总体来说可视化方面的设计还相当薄弱，有很多可做的点。准备再多找一些相关文章看看 State-of-Art.

- R. Klump, G. Dooley, and W. Wu, "Displaying aggregate data, interrelated quantities, and data trends in electric power systems," *Proc. 36th Annu. Hawaii Int. Conf. Syst. Sci. HICSS 2003*, 2003.
  - T. J. Overbye, Y. Sun, D. A. Wiegmann, and A. M. Rich, "Human Factors Aspects of Power System Visualizations: An Empirical Investigation," *Electr. Power Components Syst.*, vol. 30, no. 8, pp. 877–888, 2002.
  - D. a. Wiegmann, T. J. Overbye, S. M. Hoppe, G. R. Essenberg, and Y. S. Y. Sun, "Human factors aspects of three-dimensional visualization of power system information," *2006 IEEE Power Eng. Soc. Gen. Meet.*, vol. 61801, pp. 1–7, 2006.
  - D. A. Wiegmann, G. R. Essenberg, T. J. Overbye, and Y. Sun, "Human factor aspects of power system flow animation," *IEEE Trans. Power Syst.*, vol. 20, no. 3, pp. 1233–1240, 2005.
- [2] S. van den Elzen, D. Holten, J. Blaas, and J. J. van Wijk, "Reducing Snapshots to Points: A Visual Analytics Approach to Dynamic Network Exploration," *IEEE TVCG*, vol. 22, no. 1, pp. 1–10, Jan. 2016.

去年的 Best Paper。思路来源于 NASA 的一篇文章，对于时序数据，先将所有时间投影在平面上，直接用线按时间顺序连接。文章除此之外还做了很多聚类而努力，实现的也非常完整。

- [3] D. Ren and Z. Wang, "WeiboEvents: A Crowd Sourcing Weibo Visual Analytic System,"

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*2014 IEEE Pacific Vis. Symp.*, pp. 330–334, 2014.

信息传播的可视化，有些从点出发发散来标注节点属性的可视编码设计。

- [4] S. Chen, X. Yuan, Z. Wang, C. Guo, J. Liang, Z. Wang, X. L. Zhang, and J. Zhang, “Interactive Visual Discovering of Movement Patterns from Sparsely Sampled Geo-tagged Social Media Data,” *IEEE TVCG*, vol. 22, no. 1, pp. 270–279, 2016.

地理和文本相关可视化设计。想要参考如何在地理位置和拓扑不变的基础上合理标注更多信息